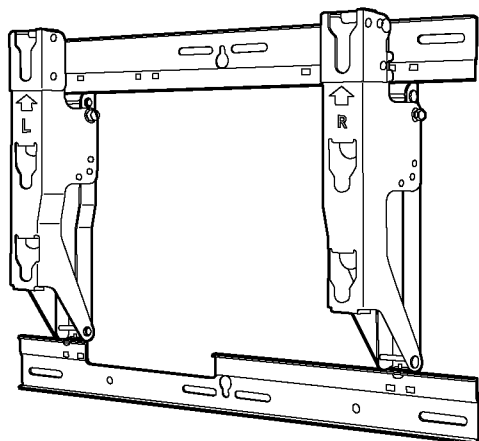


Service Manual

LCD TV wall-hanging bracket (Adjustable angle type)

Model No. **TY-WK3L1RW**



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Safety Precautions

WARNING

Ensure that the installation location is strong enough to support long-term use.

- If its strength becomes insufficient over the course of long-term use, the LCD TV may drop, possibly causing injury.

Fitting work and connection equipment expansion should never be done by any other than a qualified installation specialist.

- Incorrect fitting may cause equipment to fall, resulting in injury.

Include a safety factor when considering the strength of the proposed fitting location.

- If strength is not sufficient the equipment may fall, resulting in injury.

Do not fit at a location that cannot bear the load.

- If the fitting location lacks sufficient strength the equipment may fall.

Do not disassemble or modify the wall-hanging bracket.

- Otherwise the unit may be dropped and become damaged, and personal injury may result.

CAUTION

Do not use any television and displays other than those given in the catalogue.

- Otherwise the unit may be dropped and become damaged, and personal injury may result.

Do not fit at any locations subject to humidity, dust, smoke, steam or heat.

- This may have an adverse effect on the LCD TV and cause fire or electric shock.

The work of fitting or removing the LCD TV must be performed by at least two people.

- The LCD TV may fall and cause injury.

Do not fit facing upwards, sideways or upside down.

- This may cause heat to build up inside the LCD TV unit, resulting in a fire.

Provide spacing around the LCD TV of at least 10 cm to the top, the side and the bottom, leave a clearance between the rear panel and the wall.

- The LCD TV unit has air blow holes on the top, and air suction holes on the bottom and rear. Covering these may result in a fire.

Install the LCD TV by taking only the steps which are specified in these instructions: Do not install it in any other way.

- Otherwise the unit may be dropped and become damaged, and personal injury may result.

Install the mounting screws and power cable in such a way that they will not make contact with the inside parts of the wall.

- Electric shocks may result from contact with any metal objects inside the wall.

For installation, use the special-purpose constituent parts.

- Otherwise, the LCD TV may fall off the wall, possibly causing injury.

Remove the product that will not be used any longer.

- Otherwise the product may fall down and personal injury may result.

2 Specifications

Model Name	TY-WK3L1RW
Type	LCD TV wall-hanging bracket (Adjustable angle type)
Angle Adjustment	5 settings (No incline, 5°, 10°, 15°, 20°)
Dimensions	21 ²¹ / ₃₂ " (550 mm) (W) x 2 ⁶¹ / ₆₄ " (75 mm) (D) x 14 ¹¹ / ₆₄ " (360 mm) (H)
Weight	6.1 lb (2.8 kg)
Dimensions with Packaging	23 ⁴⁵ / ₆₄ " (602 mm) (W) x 6 ²¹ / ₆₄ " (161 mm) (D) x 4 ³ / ₃₂ " (104 mm) (H)
Weight with Packaging	11.0 lb (5.0 kg)
Material	Steel (SGHC-F06)

3 Disassembly and Assembly Instructions

3.1. Precautions for wall-hanging bracket fitting

- ◆ Installation and removal work must be carried out only by a qualified technician.
If the unit is installed or removed improperly, the display may fall down and personal injury may result.
- ◆ The wall-hanging bracket is for use in attaching a LCD TV unit to a vertical wall for viewing. Do not fit to any surface other than a vertical wall.
- ◆ To ensure correct LCD TV performance and prevent trouble, do not fit at any of the following locations.
 - Near sprinklers or fire/smoke detectors
 - Where there is a risk of exposure to vibration or impact
 - Near high-voltage wires or dynamic power supplies
 - Near sources of magnetism, heat, water vapor or soot
 - Locations exposed to air blown from heating equipment
 - Where droplets of condensation from an air conditioner or other unit may form.
- ◆ Fit using techniques suited to the structure and materials of the fitting location.
- ◆ Use commercially available screws with a nominal diameter of 6 mm (0.2 inches) that are suited to the wall material (wood, steel frame, concrete etc.) you are fitting the bracket to.
- ◆ For the TV power supply plug, use a power supply outlet that can be reached easily.
- ◆ Ensure good air flow so that the equipment ambient temperature does not exceed 40 °C (104 °F). Failure to do this may cause heat to build up inside the LCD TV, resulting in malfunction.
- ◆ Spread a soft blanket or cloth over the floor so that the LCD TV and floor will not be marked or scratched during the assembly and installation work.
- ◆ When screwing down the parts, ensure that the screws are neither insufficiently tightened nor over tightened.
- ◆ Take sufficient care to ensure safety around you when performing the assembly and installation work or while moving about during the course of the work.
- ◆ Do not install the LCD TV underneath ceiling lamps (spotlights, halogen lamps, etc.). Otherwise, the cabinet may be bent or damaged by high heat.

3.2. Disassembly and Assembly Instructions

Please assemble and install the stand according to the following procedures.

1. Assembling the wall-hanging bracket

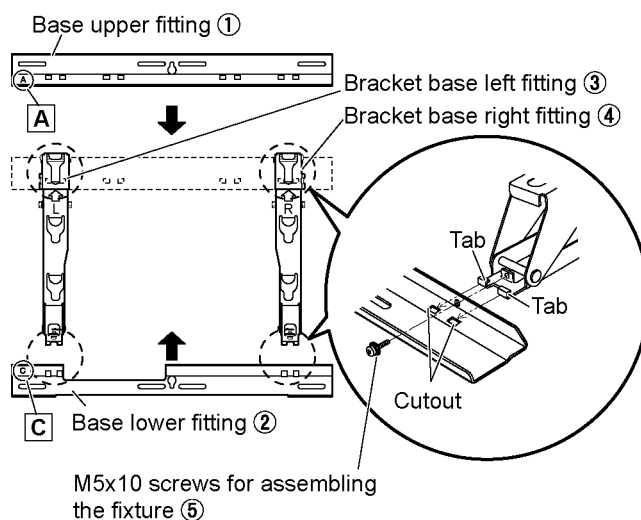
Lay the base upper and lower fittings (① and ②) and the bracket base left and right fittings (③ and ④) as shown in the figure.

Fit the protrusions (tabs) of the bracket base left and right fittings into the cutouts (2 on the left and 2 on the right) in the base upper and lower fittings, and secure the parts using the four screws (5) for assembling the fixture.

(Tightening torque: 1.2 to 1.5 N·m)

Note

- Please hold the bracket base left and right fittings as you work with the assembled wall hanging bracket. Holding the base upper and lower fittings might deform this unit.

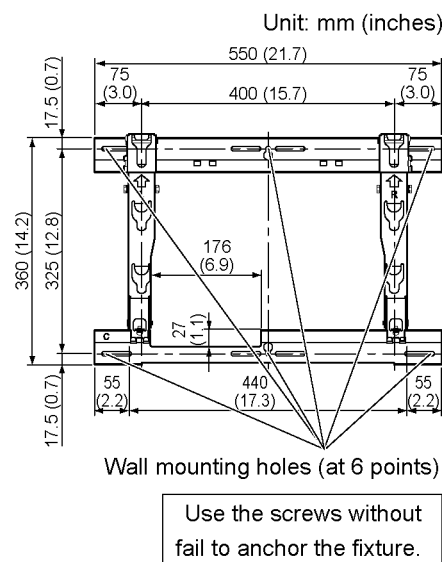


2. Checking the strength of the installation location

- ① The wall-hanging bracket weighs approximately 2.8 kg (6.2 lbs). Refer to the instruction manual of the LCD TV, and check the weight of the LCD TV unit which will be fitted into the wall-hanging bracket.
- ② Refer to the outline drawing of the wall-hanging bracket shown on the right, and check the wall strength at the six installation positions shown. If the strength at any of these positions is lacking, provide sufficient reinforcement.

Notes

- There are five pre-drilled mounting holes at the top and another five at the bottom of the wall-hanging bracket.
- Use the spare holes provided if wood or some other material is used for the wall and a sufficient level of mounting strength cannot be ensured by anchoring the fixture at the six positions shown on the right.
- However, bear in mind that, depending on which materials the mounting surface is made of, cracks may form on the surface if the screws are used at positions which are too close together.
- Mount or place only a LCD TV on the fixture: Do not mount or place any other product.
 - For details on the dimensions applying when the LCD TV is mounted, refer to the outline drawing.

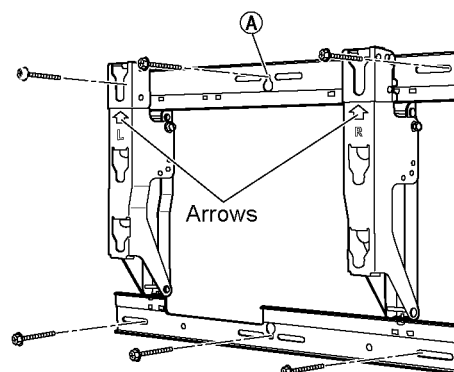


3. Installing the wall-hanging bracket on the wall

- ① Install the wall-hanging bracket so that the arrows indicated on it are pointing upward.
- ② First of all, secure the screw in the upper center hole (A).
- ③ Use a level to ensure that the fixture is not tilting on one side, and then secure the screws in the five remaining holes.

Notes

- If it is necessary to embed bolts or nuts in the wall prior to installing the wall-hanging bracket because the wall is made of concrete, for instance, locate the positions of the holes by putting the actual wall-hanging bracket in place on the wall or by calculating the hole positions from the outline drawing, and then embed bolts and nuts with a nominal diameter of 6 mm (0.2 inches) or their equivalent.
When embedding the bolts, ensure that their heads protrude by 10 to 15 mm (0.4 to 0.6 inches) from the surface of the wall.
- For installing the wall-hanging bracket onto the wall, use screws with a nominal diameter of 6 mm (0.2 inches) or their equivalent available from a hardware store and suited to the materials of the installation area on the wall.
- Anchor the screws in at least six locations.

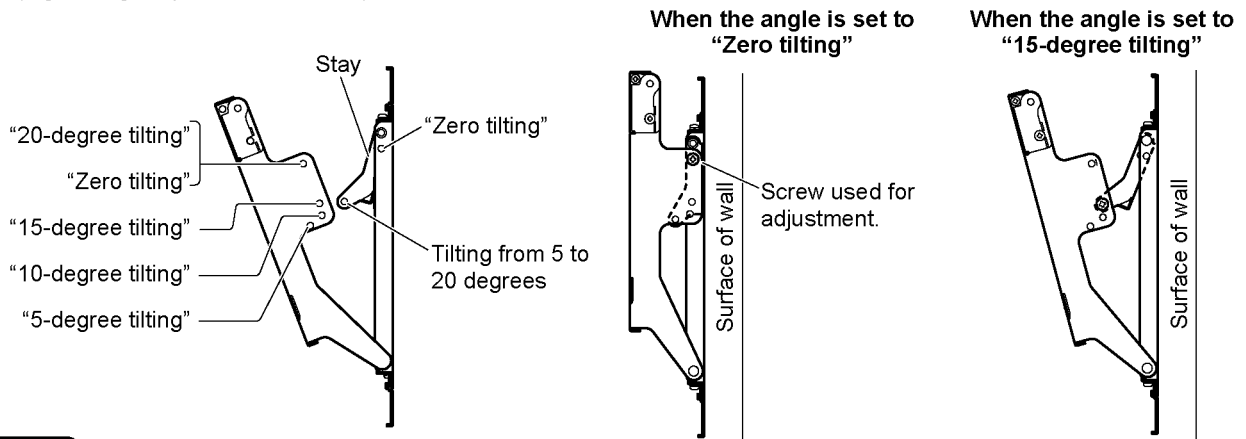


4. Adjusting the angle of the wall-hanging bracket.

- ① The angle of this wall-hanging bracket can be adjusted in 5-degree increments to one of five positions ranging from “Zero tilting” to “20-degree tilting.”

When the wall-hanging bracket is shipped from the manufacturing plant, the angle is set to “Zero tilting.” To change this angle, remove the screws used for adjustment and change the position of the stay.

(Tightening torque: 1.2 to 1.5 N•m)



Note

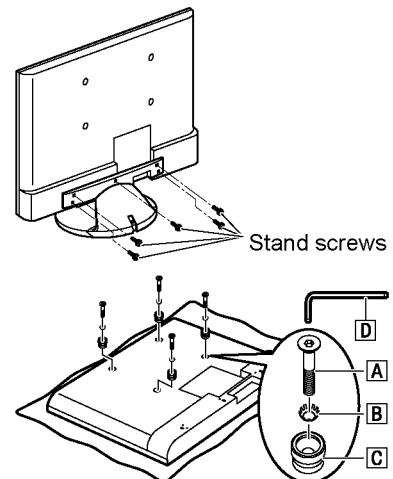
- When using some types of HDMI cables (RP-CDHG80 or RP-CDHG100) or PC cables, the cable may touch the wall and cause damage to the HDMI terminal or the PC input terminal on the television set. In such a case, adjust the angle of the wall-hanging bracket so that no weight is applied to the cable.

5. Installing the insulation spacers onto the LCD TV

- ① Place the LCD TV face down on a clean blanket or other piece of fabric free from dirt and foreign matter, and proceed as instructed below.
Take care to prevent scratches or damage if the LCD TV has protruding parts.
- ② Remove the five stand screws from the LCD TV. (See illustration at right.)

Note

- Keep the stand and screws for later use.
- ③ Using the included Allen wrench **D**, attach the dished toothed washers **B**, allen head countersunk screws **A**, and insulating spacers **C** (four each) provided with the LCD TV, as shown at right.
(Tightening torque: 1.5 to 1.8 N•m)

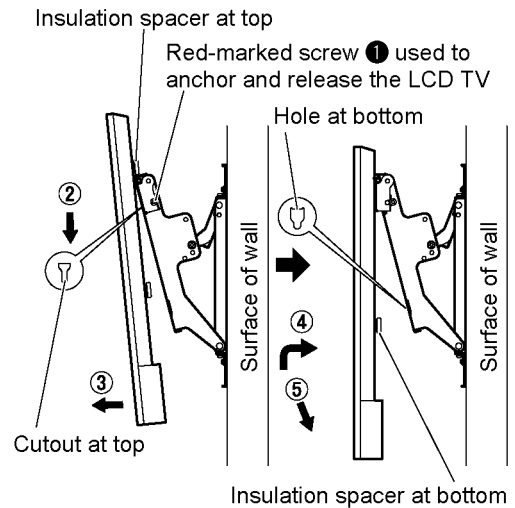


6. Mounting the LCD TV onto the wall-hanging bracket and connecting it to the other components

- ① Remove the left and right red-marked screws ❶ (one at the left and one at the right) used to anchor and release the LCD TV.
- ② Fit the insulation spacers at the top of the LCD TV onto the cutouts at the top of the wall-hanging bracket, and lower the LCD TV.
- ③ Pull the LCD TV toward you as shown in the figure on the right, and connect it to the other components.
- ④ After completing the connections, lift the LCD TV slightly, and insert the insulation spacers at the bottom into the holes at the lower part of the wall-hanging bracket.
- ⑤ Now lower the LCD TV.

CAUTION

- If the LCD TV is lifted too much, its top part will become disengaged from the wall-hanging bracket.

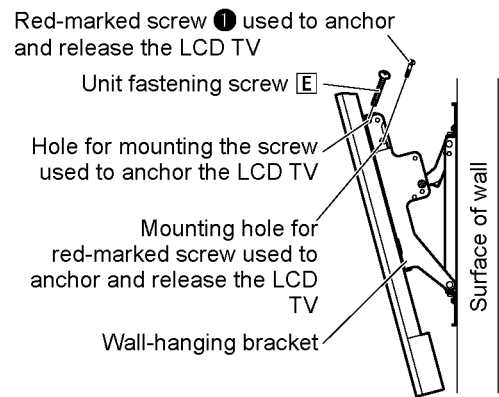


7. Anchoring the LCD TV

- ① Install the accessory unit fastening screws E (2) into the screw mounting holes on the sides (left and right) of the wall-hanging bracket used to secure the LCD TV.
- ② Securely tighten the left and right red-marked screws ❶ (one at the left and one at the right) used to anchor and release the LCD TV in the red-marked screw mounting holes on the side of the wall-hanging bracket used to anchor and release the LCD TV.
(Tightening torque: 1.2 to 1.5 N·m)

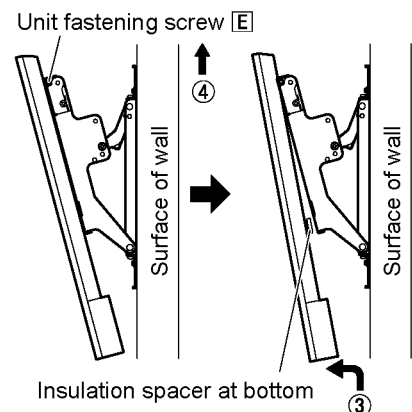
Note

- In order to prevent the LCD TV from becoming disengaged from the wall-hanging bracket, the Unit fastening screws must be securely tightened at the left and right as far as their bases.



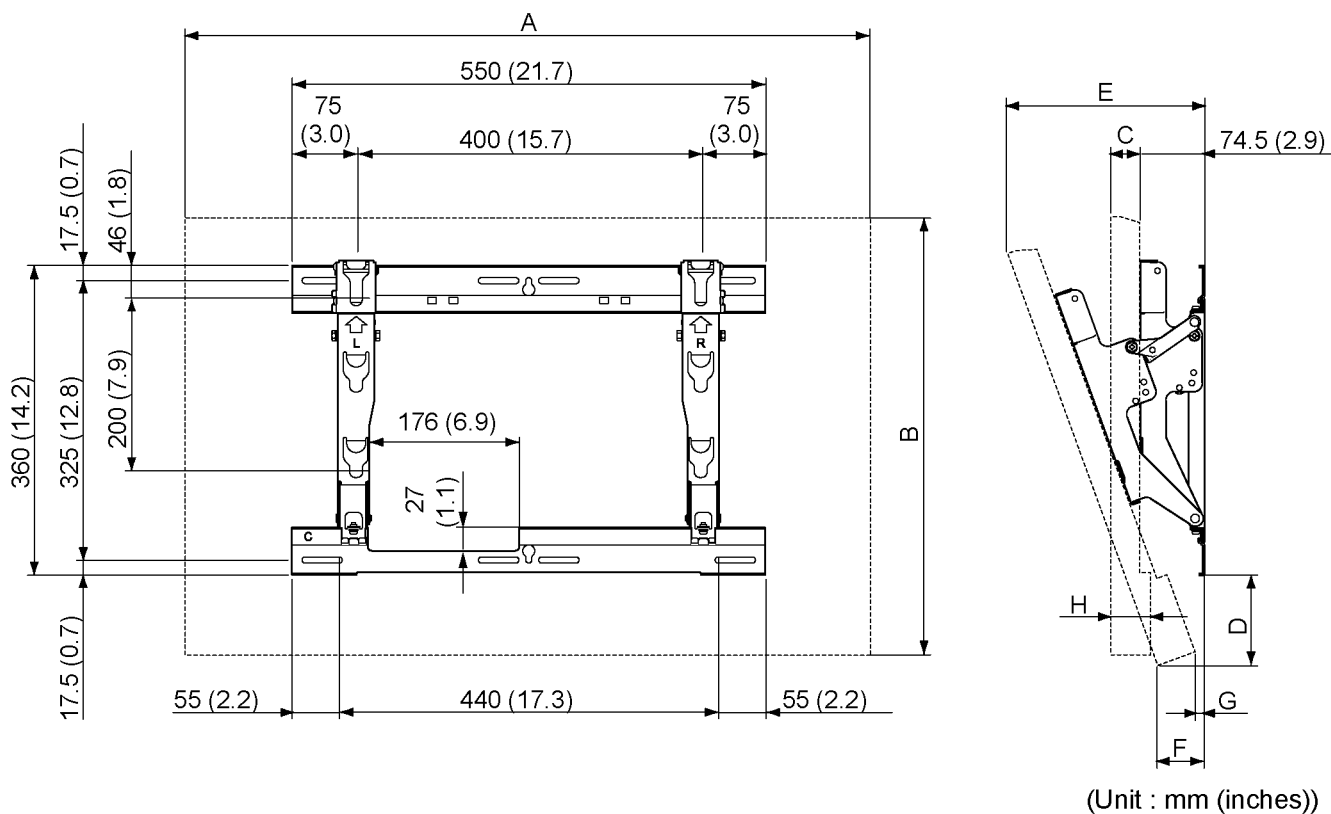
How to remove the LCD TV from the wall-hanging bracket

- ① Remove the unit fastening screws E (one at the left and one at the right) installed at the sides of the wall-hanging bracket.
- ② While lifting the bottom part of the LCD TV, pull the LCD TV toward you.
- ③ Once the insulation spacers at the bottom have been released, lift the LCD TV straight up.



4 Dimensions

Wall-hanging bracket (Adjustable angle type) External dimensions drawing



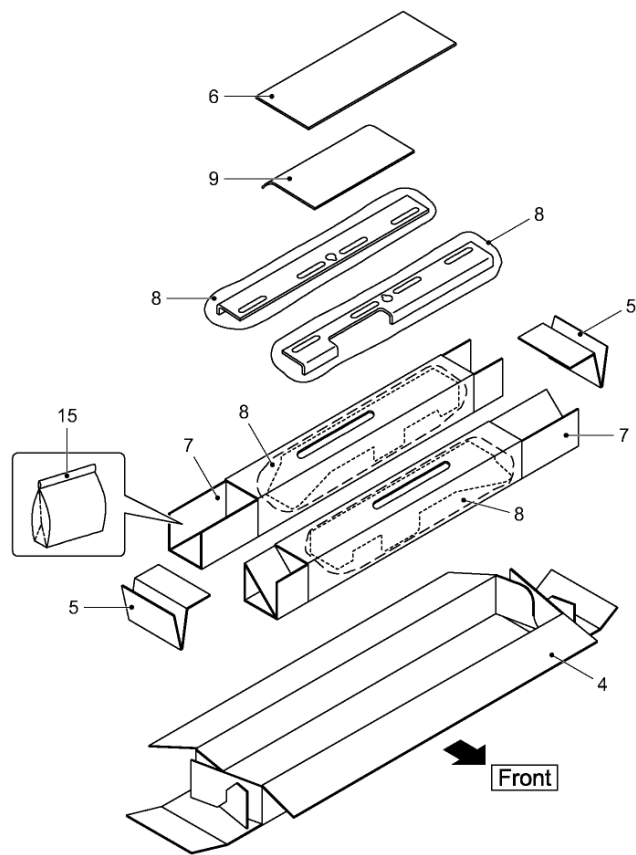
External dimensions table

Applicable models	Dimensions	Attachment angle				
		0°	5°	10°	15°	20°
		mm (inches)	mm (inches)	mm (inches)	mm (inches)	mm (inches)
TX-L32V10E TX-L32V10B TX-LR32V10	A	777 (30.6)				
	B	511 (20.1)				
	C	55 (2.2)				
	D	79 (3.1)	87 (3.4)	95 (3.7)	101 (4.0)	106 (4.2)
	E	129 (5.1)	160 (6.3)	190 (7.5)	219 (8.6)	246 (9.7)
	F	131 (5.2)	118 (4.6)	105 (4.1)	91 (3.6)	76 (3.0)
	G	64 (2.5)	53 (2.1)	41 (1.6)	29 (1.1)	17 (0.7)
	H	67 (2.6)				
TX-L37V10E TH-L37V10K TX-L37V10B TH-L37V10X TX-LR37V10 TH-L37V10M TH-L37V10H TH-L37V10R TH-L37V10A TH-L37V10Z TH-L37V11S	A	896 (35.3)				
	B	578 (22.8)				
	C	55 (2.2)				
	D	79 (3.1)	87 (3.4)	95 (3.7)	101 (4.0)	106 (4.2)
	E	129 (5.1)	166 (6.5)	202 (8.0)	236 (9.3)	269 (10.6)
	F	131 (5.2)	118 (4.6)	105 (4.1)	91 (3.6)	76 (3.0)
	G	64 (2.5)	53 (2.1)	41 (1.6)	29 (1.1)	17 (0.7)
	H	67 (2.6)				

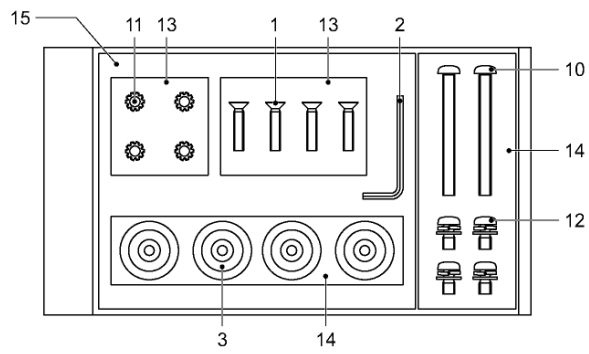
5 Requests regarding handling

- 1) Exercise care when selecting the location for the TV because it may discolor or deform due to light or heat if it is placed where it is exposed to direct sunlight, or near a heater.
- 2) Clean the wall-hanging bracket by wiping it with a soft, dry cloth (such as cotton or flannel). If the bracket is very dirty, remove the dirt using a neutral detergent diluted in water, and then wipe it clean with a dry cloth. Do not use benzene, thinner, or furniture wax as this may cause the coating to peel.
(For information on cleaning the display unit, see the display unit's instruction manual. If using a chemically-treated cloth, follow the instructions supplied with the cloth.)
- 3) Do not affix adhesive tape or stickers to the product. Doing so may dirty the surface of the wall-hanging bracket. Do not allow long-term contact with rubber, vinyl products or the like. (Doing so will cause deterioration.)
- 4) Take care during installation as shocks can cause panel cracks to the LCD TV unit.

Model No. : TY-WK3L1RW Packing Summary



• Details in 15 (PLASTIC BAG)



Model No. : TY-WK3L1RW Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	THEA208J	ALLEN HEAD COUNTERSUNK SCREW(M6-22) [A]	4	
	2	TKKX5116	HEX KEY (WRENCH)	1	
	3	TMMX253	INSULATING SPACER [C]	4	
	4	TPCC61301	CARTON BOX	1	
	5	TPDF2286	PROTECTION PAD	2	
	6	TPDF2289	PROTECTION PAD (TOP)	1	
	7	TPDF2311	PROTECTION BOX (LEFT/RIGHT)	2	
	8	TPEH433	PLASTIC BAG (BASE)	4	
	9	TQZJ067	INSTRUCTION BOOK	1	
	10	XSN5+50FJW	SCREW [E]	2	
	11	XWC6DFJW	DISHED TOOTHED WASHER [B]	4	
	12	XYN5+F10FJK	SCREW	4	
	13	XZB10X10C08	PLASTIC BAG	2	
	14	XZB10X15C08	BAG (FOR HEX KEY/SCREW)	2	
	15	XZB14X20C08	PLASTIC BAG	2	